Name of Work : - Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagalura and Kattigenahalli Byatarayanapura Constituency

Name of Contractor :-Sir. A G Narayanaswamy

Estimated cost: 1250 lakhs

Amount put to Tender as per Sanction : 1047.05 Lakhs

Agreement No. EE(Project)/Ynk Zone/WO/Date:02/21-22, Dated:26.05.2021

Accepted Tendered Amount : Rs.1057.44 lakhs

Job Code / Indent No :- 005-20-000054 Indent No.4272/Call-2

EIRL RATE ANALYSIS (PWD CSR 2018-19)

Sl No	Dscription.	Unit	Page	Item	Basic Rate	Lift charges	Total	AW @ 6%	Total Rate	Add T.P (+)	Final Rate.
E1	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (Page, 27 Item 5.26.2)	Sqm	27	5.26.2	924.00		924.00	55.44	979.44	9.79	989.23
E2	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (Page, 13 Item 4.6)	Cum	13	4.6	5422.00		5422.00	325.32	5747.32	57.47	5804.79
E3	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete (Page, 27 Item 5.30)	Nos	27	5.30	408.00		408.00	24.48	432.48	4.32	436.80

E4	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (Page, 147 Item 19.64)	Sqm	**147**	**19.64**	**6.00**		**6.00**	**0.36**	**6.36**	**0.06**	**6.42**
E5	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (Page, 147 Item 19.60)	Cum	**147**	**19.60**	**325.00**		**325.00**	**19.50**	**344.50**	**3.45**	**347.95**
E6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (Page, 153 Item 20.6)	Cum	**153**	**20.60**	**1750.00**		**1750.00**	**105.00**	**1855.00**	**18.55**	**1873.55**

Tejus Consultants

Assistant Engineer
Project Division yalahanka Zone
BBMP, Bangalore

Assistant Executive Engineer
Project Division yalahanka Zone
BBMP, Bangalore

Executive Engineer
Project Division yalahanka Zone
BBMP, Bangalore

BRUHAT BANGALORE MAHANAGAR PALIKE

Project Division Yalahanka Zone

Name of Work : - Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency

Name of Contractor :-Sir. A G Narayanaswamy

Estimated cost: 1250 lakhs

Amount put to Tender as per Sanction : 1047.05 Lakhs

Agreement No. EE(Project)/Ynk Zone/WO/Date:02/21-22, Dated:26.05.2021

Accepted Tendered Amount : Rs.1057.44 lakhs

Job Code / Indent No :- 005-20-000054 Indent No.4272/Call-2

Head of Account : P 3747 Under CM Nava Nagarothana Grants

RATE ANALYSIS -Work Slip- WORKS (PWD CSR 2018-19)

Sl No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 6%	Total Rate	Add T.P (+) 1%	Final Rate.
4	4.2	13	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)	Cum	5,194.00		5194.00	311.64	5505.64	55.06	5560.70
5	37.59.2	271	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)	Cum	6,670.00		6670.00	400.20	7070.20	70.70	7140.90

Sl No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 6%	Total Rate	Add T.P (+) 1%	Final Rate.
6	28.8.2	229	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.(I No-28.8.2,P No-229)	MT	75,610.00		75610.00	4536.60	80146.60	801.47	80948.07
8			Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm	2,331.00		2331.00	0.00	2331.00	23.31	2354.31
9	19.14	143	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143,KPWD SR 2018-19)	Cum	41.00	25.60	66.60	4.00	70.60	0.71	71.30
12	21.7	158	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-158,I No-21.7), issue rate dated 03-01-2020	Sqm	12.00		12.00	0.72	12.72	0.13	12.85

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Consultant

Assistant Engineer.
Project Division yalahanka Zone
B.B.M.P, Bangalore

Assistant Executive Engineer
Project Division Yalahanka Zone
B.B.M.P, Bangalore

Executive Engineer,
Project Division Yalahanka Zone
B.B.M.P, Bangalore

Name of Work : - Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal

Name of Contractor :-Sir. A G Narayanaswamy

Estimated cost: 1250 lakhs

Amount put to Tender as per Sanction : 1047.05 Lakhs

Agreement No. EE(Project)/Ynk Zone/WO/Date:02/21-22, Dated:26.05.2021

Accepted Tendered Amount : Rs.1057.44 lakhs

Job Code / Indent No :- 005-20-000054 Indent No.4272/Call-2

Head of Account : P 3747 Under CM Nava Nagarothana Grants

(E.I.R.L STAT

Sl. No.	Description	Unit	Qty	Rate
E1	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (Page, 27 Item 5.26.2)	Sqm	208.32	989.23
E2	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (Page, 13 Item 4.6)	Cum	11.39	5804.79
E3	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete (Page, 27 Item 5.30)	Nos	3351.00	436.80
E4	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3	Sqm	62905.68	6.42
E5	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (Page, 147 Item 19.60)	Cum	4525.94	347.95
E6	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (Page, 153 Item 20.6)	Cum	4736.80	1873.55
			Total Rs	

Percentage excess over the Amount put to Tender =

Tejus Consultants

Assistant Engineer
Project Division yalahanka Zone
Bruhat Bangalore Mahanagara Palike
Bangalore.

rocessing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency

EMENT)

Amount	Whether the items are alternative to the items of the tender or additional items	Whether the Extra item is in the sanctioned Estimate	How the cost of items is proposed to be met	Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included	Remarks
206076.39	Aditional Items	No	Savings	(Page No 27, I.No.5.26.2 of KPWD S.R 2018-19).	
66116.56	Aditional Items	No	Savings	(P.No.13, I.No.4.6 of PW, P&IWTD SR 2018-19)	
1463716.80	Aditional Items	No	Savings	(P.No.27, I.No.5.30 of PW,P&IWTD SR 2018-19)	
403854.50	Aditional Items	No	Savings	(P.No.147, I.No.19.64 of PW,P&IWTD SR 2018-19)	
1574801.56	Aditional Items	No	Savings	(P.No.147, I.No.19.60 of PW,P&IWTD SR 2018-19)	
8874632.40	Aditional Items	No	Savings	(Page No.153. I No.20.60 of PWD S.R 2018-2019)	
12589198.21					

EIRL Amount	12589198.21	11.90	% age
Amount put to tender	105752446.00		

Assistant Executive Engineer
Project Division yalahanka Zone
Bruhat Bangalore Mahanagara Palike
Bangalore.

Executive Engineer
Project Division yalahanka Zone
Bruhat Bangalore Mahanagara Palike
Bangalore.

Name of Work : - Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency

Name of Contractor :-Sir. A G Narayanaswamy
Estimated cost: 1250 lakhs
Amount put to Tender as per Sanction : 1047.05 Lakhs
Agreement No. EE(Project)/Ynk Zone/WO/Date:02/21-22, Dated:26.05.2021
Accepted Tendered Amount : Rs.1057.44 lakhs
Job Code / Indent No :- 005-20-000054 Indent No.4272/Call-2
Head of Account : P 3747 Under CM Nava Nagarothana Grants

WORK SLIP -01

Sl. No.	Description of work	Unit	As per Tender			Total Antisipated Qty	Total Amount 11+14	Qty up to 125%					Qty above 125%			Total Amount 11+14	Work Slip Amount 11-09
			Qty	Rate	Amount			Qty		Qty	Rate	Amount	Qty	Rate	Amount		
1	2	3	4	5	6	7	8			9	10	11	12	13	14	15	16
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)	Cum	67.20	5109.20	343338.24	249.27	1348189.69	67.20	16.80	84.00	5109.20	429172.80	165.27	5560.70	919016.89	1348189.69	10,04,851.45
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)	Cum	165.12	6940.80	1146064.90	543.10	3836922.15	165.12	41.28	206.40	6940.80	1432581.12	336.70	7140.90	2404341.03	3836922.15	26,90,857.25
6	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.(I No-28.8.2,P No-229)	MT	14.86	67480.00	1002752.80	30.12	2188272.06	14.86	3.72	18.58	67480.00	1253778.40	11.54	80948.07	934493.66	2188272.06	11,85,519.26
8	Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm	1080.00	2125.62	2295669.60	1528.89	3290749.52	1080.00	270.00	1350.00	2125.62	2869587.00	178.89	2354.31	421162.52	3290749.52	9,95,079.92
9	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143,KPWD SR 2018-19)	Cum	14453.97	63.62	919561.57	19105.33	1223452.06	14453.97	3613.49	18067.46	63.62	1149451.81	1037.87	71.30	74000.25	1223452.06	3,03,890.49

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Sl. No.	Description of work	Unit	As per Tender			Total Antisipated Qty	Total Amount 11+14	Qty up to 125%					Qty above 125%			Total Amount 11+14	Work Slip Amount 11-09
			Qty	Rate	Amount			Qty		Qty	Rate	Amount	Qty	Rate	Amount		
1	2	3	4	5	6	7	8			9	10	11	12	13	14	15	16
11	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 03-01-2020	Sqm	48179.90	28.92	1393362.71	57237.28	1655302.06	48179.90	9057.38	57237.28	28.92	1655302.06	0.00		0.00	1655302.06	2,61,939.35
12	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-158,I No-21.7), issue rate dated 03-01-2020	Sqm	88446.65	13.50	1194029.78	114051.35	1537422.77	88446.65	22111.66	110558.31	13.50	1492537.19	3493.04	12.85	44885.58	1537422.77	3,43,392.99
14	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6), issue rate dated 03-01-2020	Cum	2642.05	6835.72	18060314.03	2823.00	19297243.30	2642.05	180.95	2823.00	6835.72	19297243.30	0.00		0.00	19297243.30	12,36,929.27
																	80,22,459.98

Estimate Cost	10,47,05,436.11
Tender Amount	10,57,52,446.00
Total Work Slip Amount	80,22,459.98
Percentage of Work Slip Amount Compared to Tender Amount	7.59%

Consultant

Assistant Engineer
Project Division Yalahanka Zone
B.B.M.P

Assistant Executive Engineer
Project Division Yalahanka Zone
B.B.M.P

Executive Engineer
Project Division Yalahanka Zone
B.B.M.P

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ